



January 18, 2008

Ms. Sherie Sabour
King County
Department of Development and Environmental Services (DDES)
900 Oaksdale Avenue Southwest
Renton, WA 98057-5212

Subject: SEPA Checklist Submittal
Bio Energy (Washington), LLC Landfill Gas to Energy Project
Project # A07P0324 Cedar Hills Landfill Gas Processing Plant

Dear Ms. Sabour:

On January 9, 2008 Bio Energy (Washington), LLC participated in a project pre-application meeting with King County Department of Development and Environmental Services (DDES) staff regarding our Landfill Gas to Energy Project at the Cedar Hills Regional Landfill in King County, Washington. With this letter we are submitting the SEPA Checklist as agreed in that meeting to begin the King County DDES permitting process. Please find attached the following:

- SEPA Checklist (including the required greenhouse gas total emissions worksheet)
- Certification of Applicant Form
- Check in the amount of \$663.00 (deposit as required for a SEPA submittal by mail)

Please feel free to contact me at (804) 521-3557 if you have any questions regarding this submittal.

Sincerely,

A handwritten signature in cursive script that reads 'Robert L. Greene'.

Robert L. Greene
Environmental Director
Bio Energy (Washington), LLC



King County
Department of Development and Environmental Services
 900 Oakesdale Avenue Southwest
 Renton, Washington 98057-5212
206-296-6600 TTY 206-296-7217

CERTIFICATION OF APPLICANT STATUS

For alternate formats, call 206-296-6600.

Permit Number: _____ Activity Number: _____

Permit Name: _____

FOR INDIVIDUALS:

I, _____ (print name), hereby certify that I am the/an owner of the property which is the subject of this permit. If I am not the sole owner of the property, I certify that I am authorized to represent all other owners of the property. My mailing address is:

I further certify that I am the "Applicant" for this permit and as such am **financially responsible for all fees and will receive any refunds paid.** I shall remain the "Applicant" for the duration of this permit unless I transfer my "applicant" status in writing on the form provided by DDES.

*

 Signature of Applicant

 Date Signed

- OR -

FOR CORPORATIONS/BUSINESS ASSOCIATIONS:

I, Robert L. Greene (print name), hereby certify that I am an authorized agent of Bio Energy (Washington), LLC, a corporation or other business association authorized to do business in the State of Washington, which is the sole owner of the property that is the subject of this permit. If this corporation or business association is not the sole owner of the property, I certify that this corporation/business association is authorized to represent all other owners of the property. The mailing address of this corporation/business association is:

Bio Energy (Washington), LLC (c/o Robert Greene)

2250 Dabney Road

Richmond, VA 23230

I further certify that the above named corporation/business association is the "Applicant" for this permit and as such is **financially responsible for all fees and will receive any refunds paid.** This corporation/business association shall remain the "Applicant" for the duration of this permit unless it transfers its applicant status in writing on the form provided by DDES.

*

Robert L. Greene

Signature of Applicant's Agent

18 Jan 2008

Date Signed

* By signing as the Applicant or the Applicant's Agent, I certify under penalty of perjury under the laws of the State of Washington that the information provided above is true and correct.

☒ I authorize this department to return plans directly to my consultant(s) for the limited purpose of making corrections as designated on this form.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page.



King County

**Department of Development
and Environmental Services**

900 Oakesdale Avenue Southwest
Renton, WA 98057-5212

206-296-6600 TTY 206-296-7217

STATE ENVIRONMENTAL POLICY ACT (SEPA) CHECKLIST

For alternate formats, call 206-296-6600.

Purpose of the checklist

The State Environmental Policy Act (SEPA), RCW Chapter 43.21 C, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An Environmental Impact Statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for the applicants

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply". Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations such as zoning, shoreline and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impacts.

A. Background

1. Name of the proposed project, if applicable:

Bio Energy (Washington), LLC Landfill Gas to Energy Project at the King County Cedar Hills Regional Landfill

2. Name of applicant:

Bio Energy (Washington), LLC

3. Address and phone number of applicant and contact person:

Applicant: Bio Energy (Washington), LLC
2250 Dabney Road
Richmond, VA 23230
Contact: Robert L. Greene (804) 521-3557

4. Date checklist prepared: January 2008

5. Agency requesting checklist: King County Dept. of Development and Environmental Services

6. Proposed timing or schedule (including phasing, if applicable):

Construction start date is currently planned for Spring 2008

7. Do you have any plans for future additions, expansion or further activity related to or connected with this proposal? ☐ Yes ☒ No If yes, explain.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

An Air Quality Impact Analysis for the project using current US EPA's approved AERMOD model will be performed to determine compliance with Puget Sound Clean Air Agency's (PSCAA) Regulation II and Washington State Department of Ecology's air emission requirements (WAC 173-460 - Controls for New Sources of Toxic Air Pollutants). A BACT (Best Available Control Technology) analysis for air permitting analysis will be completed.

9. Do you know whether applications are pending for government approvals of other proposals directly affecting the property covered by your proposal? ☒ Yes ☐ No If yes, explain.
Following the modeling and BACT analysis (listed in No. 8 of this checklist) Bio Energy (Washington), LLC, will complete applicable air permitting as required by PSCAA.

10. List any government approvals or permits that will be needed for your proposal, if known.

King County DDES - SEPA Determination
King County DDES - Clearing and Grading Permit
PSCAA - Air Permit - Notice of Construction Order of Approval

11. Give brief complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

Bio Energy (Washington), LLC, will construct a landfill gas-to-energy facility at the Cedar Hills Regional Landfill in King County Washington. The facility will collect available landfill gas from decomposing garbage at the landfill and convey it to a processing facility constructed by Bio Energy (Washington) at the landfill. The gas processing facility will convert landfill gas into pipeline quality natural gas and send it via pipeline for distribution through an available and nearby Puget Sound Energy (PSE) pipeline. It will also process the landfill gas in an internal combustion engine constructed by Bio Energy (Washington), LLC to generate electrical power for onsite use. The proposed project site is approximately 2 acres.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site or sites. Provide a legal description, site plan, vicinity map and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications to this checklist.

The Bio Energy (Washington), LLC facility will be located at the King County Cedar Hills Regional Landfill (CHRLF) which is located in unincorporated King County near Maple Valley, WA. CHRLF is located on a 940-acre site in south-central unincorporated King County approximately 4 miles south of Issaquah and 6 miles east of Renton between the Cedar River and Sammamish River drainages (Section 21, Township 23 N, Range 6 E, Willamette Meridian). The CHRLF address is 16645 228th Street SE, Maple Valley, WA 98038-6209.

Attachment 2 provides a site plan, vicinity map and topographic map. Bio Energy (Washington), LLC will lease approximately 2 acre of property from King County at the CHRLF for this project.

To be completed by applicant	Evaluation for Agency Use Only
<p>B. Environmental elements</p> <p>1. Earth</p> <p>a. General description of the site (check one)</p> <p> <input checked="" type="checkbox"/> Flat <input type="checkbox"/> Rolling <input type="checkbox"/> Hilly <input type="checkbox"/> Steep slopes <input type="checkbox"/> Mountainous <input type="checkbox"/> Other: _____ </p> <p>b. What is the steepest slope on the site (approximate percent of slope)? <1%</p> <p>c. What general types of soil are found on the site (i.e., clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.</p> <p> In the December 2007, Report of Getechnical Engineering Services, by Geo-Design, Inc. five borings (16-21 ft deep) were completed at the Bio Energy facility location. "Subsurface conditions encountered at the boring locations typically consist of a layer of fill composed of silty sandy gravel with silt of variable thickness and density underlain by very dense glacial till." </p> <p>d. Are there surface indications or history of unstable soils in the immediate vicinity? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, describe.</p> <p>e. Describe the purpose, type and approximate quantities of any filling or grading proposed. Indicate source of fill.</p> <p> Approximately 1000 cy of soil/gravel will be removed for construction of building and equipment pad foundations. The removed soil will be reused onsite. No fill material is planned to be brought onsite. </p> <p> Site grading will be completed to develop the site into a 'pad-ready' condition to support the gas processing facility. Attachment A presents the site plan of the proposed gas processing facility. At the completion of construction of the Bio Energy (Washington), LLC facility, the site will be paved with asphalt or filled with crushed and compacted gravel surface. </p>	

To be completed by applicant	Evaluation for Agency Use Only
<p>f. Could erosion occur as a result of clearing, construction or use? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If so, generally describe.</p> <p>The potential for erosion during construction will be minimal due to the level site area, the small construction footprint, and the application of best management practices (BMPs) to control erosion and runoff.</p> <p>No erosion is anticipated once the facility is completed and operational.</p> <p>g. About what percent of the site will be covered with impervious surfaces after project construction (i.e., asphalt or buildings)?</p> <p>There will be little change from the current site conditions. The entire Bio Energy (Washington), LLC site, approximately 2 acres, is currently a parking lot for King County employee vehicles and transfer trucks.</p> <p>h. Proposed measures to reduce or control erosion or other impacts to the earth, if any:</p> <p>An erosion control plan will be prepared as a component of the construction specifications. This plan will present appropriate BMPs (e.g., silt fencing, straw mulch, dust control) for the construction. These BMPs will be determined through the King County Clearing and Grading Permit process.</p>	
<p>2. Air</p> <p>a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke, greenhouse gases) during construction and when the project is completed? If any, generally describe and give approximate quantities if known?</p> <p>During site construction, there may be dust and emissions from construction equipment. The approximate quantity is unknown but predicted to be insignificant due to the small size of the site. The emissions from the gas processing facility will be estimated through modeling and will be subject to an applicable air permit issued by PSCAA. (Also see Att. 1)</p> <p>b. Are there any off-site sources of emissions or odor that may affect your proposal? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If so, generally describe.</p> <p>The site is located within the CHRLF that has air quality control requirements for emission and odors established for it's daily operations.</p> <p>For the Bio Energy (Washington), LLC gas processing facility, emissions will be regulated by the PSCAA air permit. No odors are anticipated. The process will include sulfur removal and carbon beds for treatment of the gas before it is compressed and delivered to the nearby natural gas distribution system and combusted in onsite engines for power generation.</p>	

To be completed by applicant	Evaluation for Agency Use Only
<p>c. Proposed measures to reduce or control emissions or other impacts to air, if any:</p> <p>For construction related air emissions, BMPs including dust control measures will be implemented through the construction specifications. During facility operation, PSCAA established air permit requirements that define BMPs and facility emission source controls will be implemented.</p> <p>3. Water</p> <p>a. Surface:</p> <p>1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, salt water, lakes, ponds, wetlands)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe type and provide names. If appropriate, state what stream or river it flows into.</p> <p>Not applicable.</p> <p>2. Will the project require any work over, in or adjacent to (within 200 feet) the described waters? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please describe and attach available plans.</p> <p>Not applicable.</p> <p>3. Estimate the amount of fill and dredge material that would be placed or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.</p> <p>None required.</p>	

To be completed by applicant	Evaluation for Agency Use Only
<p>4. Will the proposal require surface water withdrawals or diversions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give general description, purpose and approximate quantities if known.</p> <p>Not applicable.</p> <p>5. Does the proposal lie within a 100-year floodplain? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, note location on the site plan.</p> <p>Not applicable</p> <p>6. Does the proposal involve any discharges of waste materials to surface waters? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, describe the type of waste and anticipated volume of discharge.</p> <p>Not applicable</p>	
<p>b. Ground</p> <p>1. Will groundwater be withdrawn or will water be discharged to groundwater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give general description, purpose and approximate quantities if known.</p> <p>Not applicable</p> <p>2. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (i.e., domestic sewage; industrial, containing the following chemicals: . . .; agricultural; etc.) Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans expected to be served by the system or systems.</p> <p>Wastewater from the gas processing facility will include approximately three to four gallons per minute from the two cooling towers and eight gallons per minute for condensate (no change from that currently generated from the site landfill condensate system). Domestic sewage from the site building will be conveyed to and handled by the existing CHRLF collection, treatment, and discharge systems.</p>	

To be completed by applicant**Evaluation for
Agency Use
Only****c. Water runoff (including stormwater):**

1. Describe the source of runoff (including stormwater) and method of collection and disposal, if any. Include quantities, if known. Where will this water flow? Will this water flow into other waters? If so, describe.

We expect the project to have minimal changes to the current surface characteristics of the CHRLF, which would result in minimal changes in stormwater flow and volume. Stormwater generated at the site will be directed to the CHRLF onsite stormwater collection and treatment system.

2. Could waste materials enter ground or surface waters?
☐ Yes ☒ No If so, generally describe.

The Bio Energy (Washington), LLC facility expects to generate three waste streams: 1) sulfur removal wastes to be disposed of in the CHRLF, 2) carbon treatment unit wastes to be disposed of in the CHRLF and 3) oily wastes to be disposed offsite at a permitted location. These three streams will be handled so they will not enter ground or surface waters.

- d. Proposed measures to reduce or control surface, ground and runoff water impacts, if any:

See c. 2 above.

4. Plants

- a. Check or circle types of vegetation found on the site:

- ☐ Deciduous tree: alder, maple, aspen, other
☐ Evergreen tree: fir, cedar, pine, other
☐ Shrubs
☐ Grass
☐ Pasture
☐ Crop or grain
☐ Wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
☐ Water plants: water lily, eelgrass, milfoil, other
☒ Other Landfill cover

To be completed by applicant	Evaluation for Agency Use Only
<p>b. What kind and amount of vegetation will be removed or altered? None, current project construction location is a paved parking lot.</p> <p>c. List threatened or endangered species known to be on or near the site. No endangered plant species are on the landfill and proposed gas processing facility site. There may threatened and protected plant species within the Cedar and Samammish River Watersheds but these will not be impacted by the project,</p> <p>d. Proposed landscaping, use of native plants or other measures to preserve or enhance vegetation on the site, if any: None.</p>	
<p>5. Animals</p> <p>a. Check or circle any birds and animals which have been observed on or near the site:</p> <p><input checked="" type="checkbox"/> Birds: hawk, heron, eagle, songbirds, other</p> <p><input checked="" type="checkbox"/> Mammals: deer, bear, elk, beaver, other</p> <p><input checked="" type="checkbox"/> Fish: bass, salmon, trout, herring, shellfish, other</p> <p>b. List any threatened or endangered species known to be on or near the site. No endangered species are on the landfill or the proposed gas processing facility site. Birds such as bald eagles and spotted owls and anadromous fish (Chinook, Coho, Sockeye salmon and steelhead trout) are in nearby forested areas and watersheds but these animals will not be impacted by the project.</p> <p>c. Is the site part of a migration route? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If so, explain. The Pacific Flyway.</p>	

To be completed by applicant	Evaluation for Agency Use Only
<p>d. Proposed measures to preserve or enhance wildlife, if any:</p> <p>None needed</p>	
<p>6. Energy and natural resources</p> <p>a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.</p> <p>Fuel used by construction equipment during site development and during operations to operate up to twelve generators. During operations the facility will use landfill gas and a pilot charge of 8% No. 2 fuel oil or biodiesel to produce electricity. The facility requires incoming electrical power for operations and startup. Once operational, the facility will produce energy (both natural gas and electricity from landfill gas).</p> <p>b. Would your project affect the potential use of solar energy by adjacent properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, generally describe.</p> <p>Not applicable</p> <p>c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:</p> <p>Not applicable. The completed facility will treat landfill gas, a waste currently burned in flares, and convert it into a resource. The project will reduce CO2 emissions and provide a net environmental improvement to the surrounding area (by reducing the amount of flared gas) as well as to King County's efforts to reduce greenhouse gas emissions.</p>	

To be completed by applicant	Evaluation for Agency Use Only
<p>7. Environmental health</p> <p>a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill or hazardous waste that could occur as a result of this proposal? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If so, describe.</p> <p style="padding-left: 40px;">Toxic byproducts including VOCs, siloxanes and sulfur compounds which will be destroyed in the new thermal oxidizer. Risks of fire and explosion are reduced by facility design and operating practices. No hazardous waste is expected to be generated.</p> <p>1. Describe special emergency services that might be required.</p> <p style="padding-left: 40px;">No special emergency services will be required. Design and operation of the gas processing facility will need to comply with PSCAA air permit conditions and applicable emergency gas generation. The site will also be subject to safety requirements as established by PSE for gas conveyed from the facility to the PSE conveyance pipe and pipeline.</p> <p>2. Proposed measures to reduce or control environmental health hazards, if any:</p> <p style="padding-left: 40px;">The facility will be subject to air permit requirements that will include controls to protect human health and the environment.</p> <p>b. Noise</p> <p>1. What types of noise exist in the area which may affect your project (i.e., traffic, equipment, operation, other)?</p> <p style="padding-left: 40px;">The site is located on an operating regional landfill which generates noise through it's daily transfer operations, truck traffic, cell construction and closure earth moving equipment, the existing equipment at the flare station, etc.</p> <p>2. What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (i.e., traffic, construction, operation, other)? Indicate what hours noise would come from the site.</p> <p style="padding-left: 40px;">Noise from the constuction of the facility will be primarily during daylight hours. During gas facility operations, limited noise is expected since the facility design includes landfill gas/diesel engines inside a building with noise attenuation and centrifugal compressors.</p> <p>3. Proposed measures to reduce or control noise impacts, if any:</p> <p style="padding-left: 40px;">None proposed.</p>	

To be completed by applicant	Evaluation for Agency Use Only
<p>8. Land and shoreline use</p> <p>a. What is the current use of the site and adjacent properties? Municipal landfill</p> <p>b. Has the site been used for agriculture? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, describe. Not applicable</p> <p>c. Describe any structures on the site. Site is currently a parking lot. Constructed Bio Energy (Washington), LLC facility structures are shown in Attachment 2 site plan.</p> <p>d. Will any structures be demolished? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, what? Not applicable.</p> <p>e. What is the current zoning classification of the site? Rural Area (RA-10) per the King County zoning map</p> <p>f. What is the current Comprehensive Plan designation of the site? Landfill</p> <p>g. If applicable, what is the current shoreline master program designation of the site? Not applicable</p>	

To be completed by applicant	Evaluation for Agency Use Only
<p>h. Has any part of the site been classified as an "environmentally sensitive" area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is so, specify.</p> <p>i. Approximately how many people would reside or work in the completed project? Approximately 5 workers (1-2 per shift). No residents.</p> <p>j. Proposed measures to avoid or reduce displacement impacts, if any: No workers will be displaced.</p> <p>k. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: Exisiting use is a parking lot at a regional landfill. The Bio Energy (Washington) facility is a compatible use with the landfill operations.</p>	
<p>9. Housing</p> <p>a. Approximately how many units would be provided, if any? Indicate whether high, middle or low-income housing. Not applicable</p> <p>b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle or low-income housing. None</p>	

To be completed by applicant	Evaluation for Agency Use Only
<p>c. Proposed measures to reduce or control housing impacts, if any: None needed. Gas processing facility will be located on an a regional landfill.</p>	
<p>10. Aesthetics</p> <p>a. What is the tallest height of any proposed structure or structures, not including antennas? What is the principal exterior building material or materials proposed? The tallest proposed structure is the emission stacks which will be approximately 30-35 feet high. Refer to Attachment 2 for further information on proposed structures.</p> <p>b. What views in the immediate vicinity would be altered or obstructed? None</p> <p>c. Proposed measures to reduce or control aesthetic impacts, if any: None needed</p>	
<p>11. Light and glare</p> <p>a. What type of light and glare will the proposal produce? What time of day would it mainly occur? None anticipated. Site currently has lighting and landfill gas flares. Bio Energy (Washington) facility is currently anticipating one gas flare and one thermal oxidizer.</p> <p>b. Could light or glare from the finished project be a safety hazard or interfere with views? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, explain: Gas processing facility will be located on a regional landfill.</p>	

To be completed by applicant	Evaluation for Agency Use Only
<p>c. What existing off-site sources of light or glare may affect your proposal?</p> <p>None.</p> <p>d. Proposed measures to reduce or control light and glare impacts, if any:</p> <p>None needed.</p>	
<p>12. Recreation</p>	
<p>a. What designated and informal recreational opportunities are in the immediate vicinity?</p> <p>Not applicable. Gas processing facility will be located on a regional landfill.</p> <p>b. Would the proposed project displace any existing recreational uses?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, describe.</p> <p>Not applicable. Gas processing facility will be located on a regional landfill.</p>	
<p>c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, in any:</p> <p>None needed. Gas processing facility will be located on a regional landfill.</p>	

To be completed by applicant	Evaluation for Agency Use Only
<p>13. Historic and cultural preservation</p> <p>a. Are there any places or objects listed on, or proposed for, the national state or local preservation registers known to be on or next to the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, generally describe. Not applicable. Gas processing facility will be located on a regional landfill..</p> <p>b. Generally describe any landmarks or evidence of historic, archaeological, scientific or cultural importance known to be on or next to the site. Not applicable Gas processing facility will be located on a regional landfill..</p> <p>c. Proposed measures to reduce or control impacts, if any: None needed. Gas processing facility will be located on a regional landfill.</p>	
<p>14. Transportation</p> <p>a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any. Public streets serve the site. Access to the INGENCO site will be through the main gate and road serving the CHRLF.</p> <p>b. Is the site currently served by public transit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If not, what is the approximate distance to the nearest transit stop? Not applicable site is a landfill.</p>	

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<p>c. How many parking spaces would the completed project have? How many would the project eliminate?</p> <p>The project will be constructed on exisiting parking spaces which will be relocated by King County to another area of the site. The completed Bio Energy (Washington), LLC project will have approximately ten (10) parking spaces.</p> <p>d. Will the proposal require any new roads or streets or improvements to existing roads or streets, not including driveways? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, generally describe (indicate whether public or private).</p> <p>Not applicable</p> <p>e. Will the project use (or occur in the immediate vicinity of) water, rail or air transportation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, generally describe.</p> <p>Not applicable.</p> <p>f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.</p> <p>The Bio Energy (Washington), LLC facility will employ approximately five (5) staff (working shifts, 1-2 per shift) who would drive to the site each day.</p> <p>g. Proposed measures to reduce or control transportation impacts, in any:</p> <p>None.</p>	

C. Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Robert H. Greene
Signature

18 Jan 2008
Date submitted

Check out the DDES Web site at www.kingcounty.gov/permits

Attachment 1 Greenhouse Gas Worksheet

Attachment 1

Green House Gas Emissions and Emission Worksheet

The proposed project is a Landfill Gas to Energy Project located at the Cedar Hills Landfill in King County, Washington. The project will collect the existing Cedar Hill's landfill gas stream and convey it to a gas processing facility that will be constructed by Bio Energy (Washington), LLC at the landfill site. The gas processing facility will treat the landfill gas to produce two streams – 1) a methane gas stream that is approximately 90% methane that will be sold to a local gas pipeline company for use as natural gas and 2) a second gas stream composed of volatiles, nitrogen and other compounds which will be collected and destroyed in a new thermal oxidizer unit to be constructed as part of the facility by Bio Energy (Washington), LLC. The project will also include the installation of internal combustion engines to generate power for the process as a supplement to onsite power supplies. The engines will primarily use a portion of the methane from the landfill as fuel.

Green House Gas (GHG) emissions resulting from the construction of the proposed project, operation of the new facility, and employee transportation are estimated in an Excel worksheet provided by King County. The worksheet estimates the total project emissions to be 10773 million tons of carbon dioxide equivalents (MTCO₂e) over the lifespan of the project. However, on the global scale, this project will result in an overall reduction of GHG emissions. Currently, the methane generated by the Cedar Hills Landfill is combusted in flares and turned into carbon dioxide, with no heat or energy recovery. The methane stream that will be produced by the Bio Energy facility and sold to a local gas pipeline company will also eventually be combusted; however the energy from the methane will be recovered as either heat or work. The project results in a reduction of GHG emissions because the methane stream from the landfill will displace an equal amount of methane, or natural gas, in the pipeline. The result is that a thermal quantity of natural gas from the pipeline equal to the thermal quantity of methane inserted to the pipeline from the landfill is no longer needed to produce energy, and therefore not combusted.

Bio Energy (Washington), LLC
Cedar Hills Landfill Gas to Energy Project

Section I: Buildings

Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Emissions Per Unit or Per Thousand Square Feet (MTCO2e)			Lifespan Emissions (MTCO2e)
			Embodied	Energy	Transportation	
Single-Family Home.....	0		98	672	792	0
Multi-Family Unit in Large Building	0		33	357	766	0
Multi-Family Unit in Small Building	0		54	681	766	0
Mobile Home.....	0		41	475	709	0
Education		0.0	39	646	361	0
Food Sales		0.0	39	1,541	282	0
Food Service		0.0	39	1,994	561	0
Health Care Inpatient		0.0	39	1,938	582	0
Health Care Outpatient		0.0	39	737	571	0
Lodging		0.0	39	777	117	0
Retail (Other Than Mall).....		0.0	39	577	247	0
Office		0.0	39	723	588	0
Public Assembly		0.0	39	733	150	0
Public Order and Safety		0.0	39	899	374	0
Religious Worship		0.0	39	339	129	0
Service		0.0	39	599	266	0
Warehouse and Storage		0.0	39	352	181	0
Other		5.5	39	1,278	257	8595
Vacant		0.0	39	162	47	0

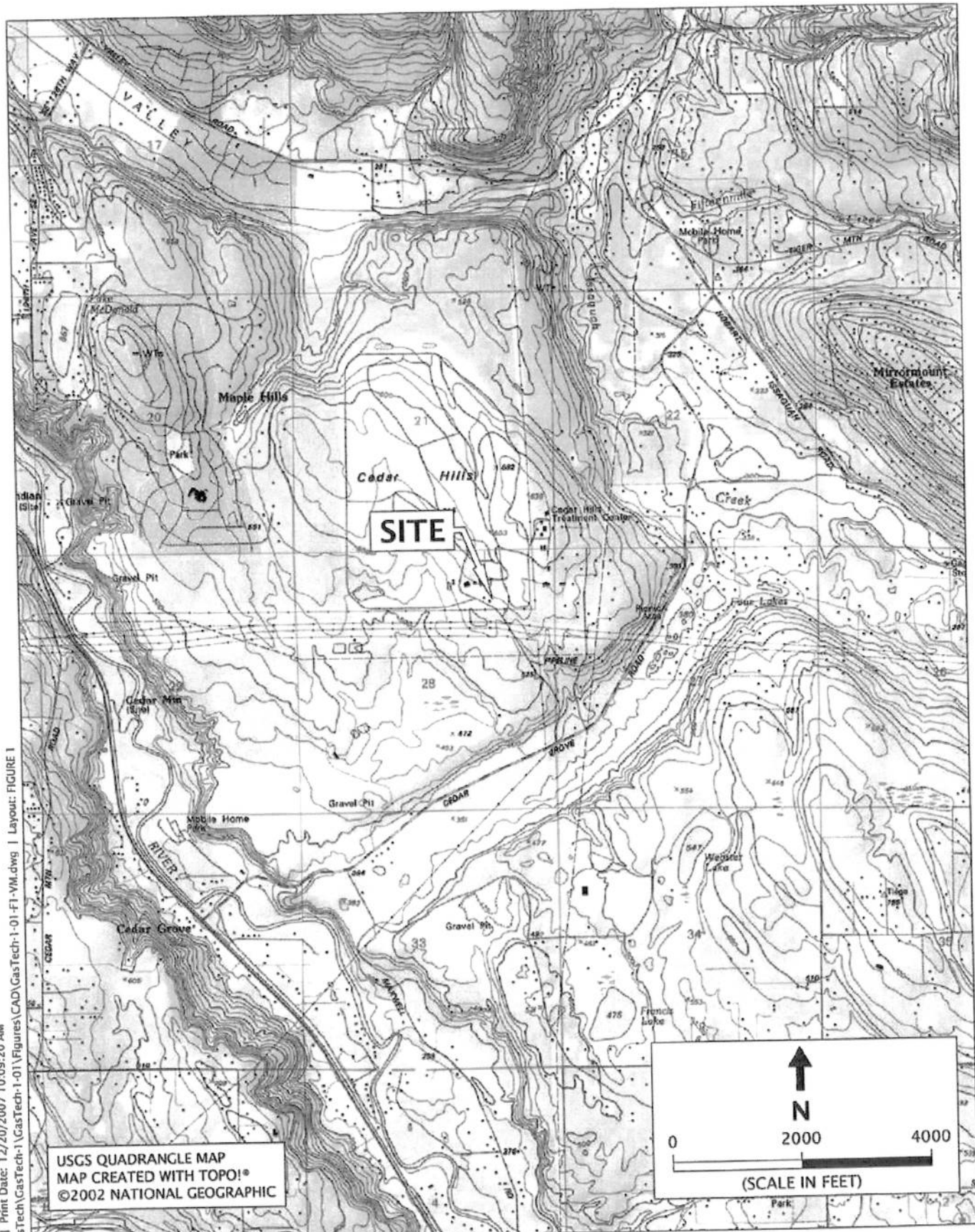
Section II: Pavement.....

Pavement.....		43.56				2178
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Total Project Emissions:

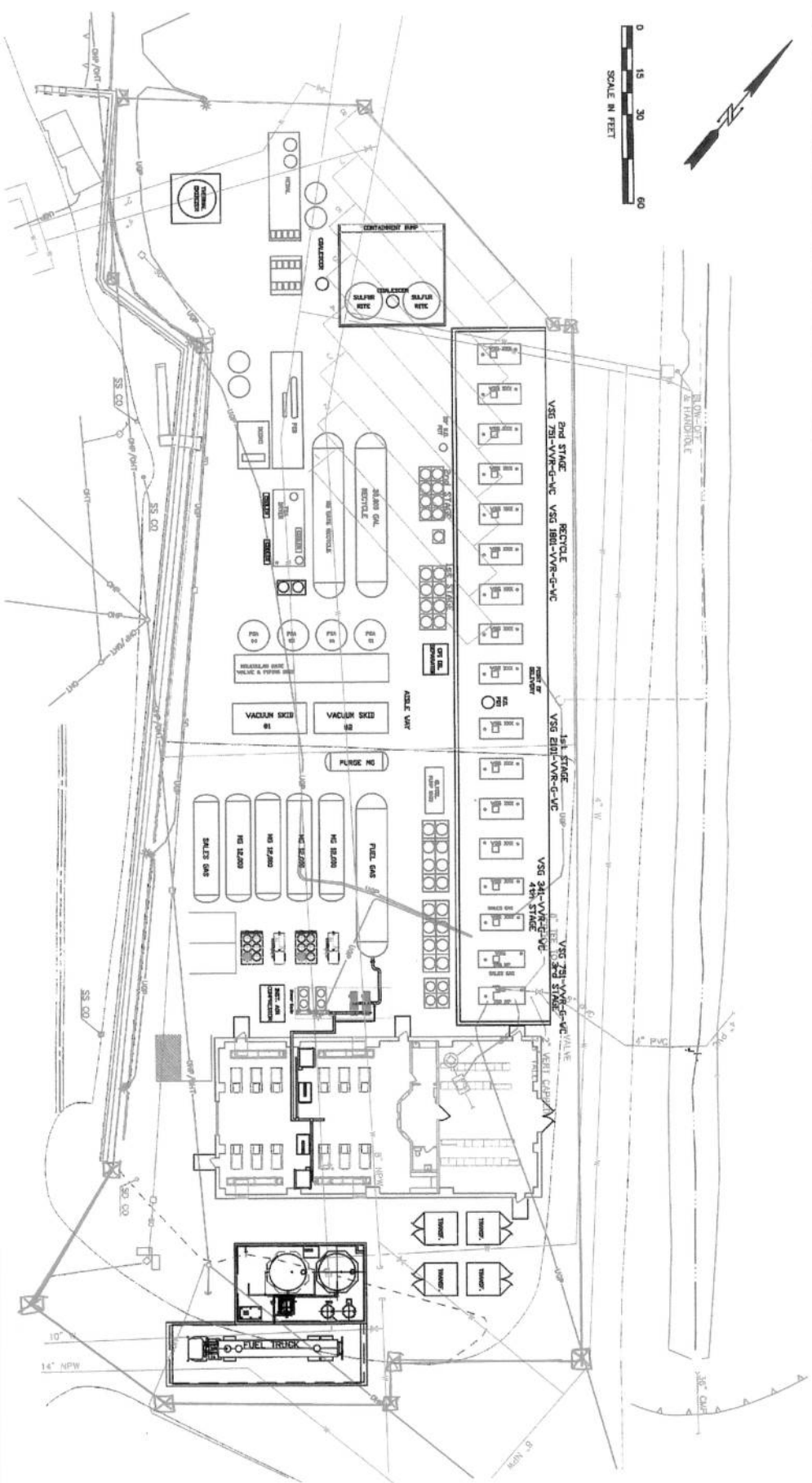
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Attachment 2 Site Plan



Printed By: ssooter | Print Date: 12/20/2007 10:09:20 AM
 File Name: J:\E-L\GasTech-1-01\Figures\CAD\GasTech-1-01-Fl-VM.dwg | Layout: FIGURE 1

GEODESIGN INC 10700 Meridian Avenue North - Suite 210 Seattle, WA 98133 Off 206.838.9900 Fax 206.838.9901	GASTECH-1-01 DECEMBER 2007	VICINITY MAP KING COUNTY CEDAR HILLS LANDFILL MAPLE VALLEY, WA	FIGURE 1
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REV	BY	DATE	DESCRIPTION	PROJECT NO.
1	WMA	6/14/98	REVISION	
2	WMA	6/14/98	REVISION	
3	WMA	6/14/98	REVISION	
4	WMA	6/14/98	REVISION	
5	WMA	6/14/98	REVISION	
6	WMA	6/14/98	REVISION	
7	WMA	6/14/98	REVISION	
8	WMA	6/14/98	REVISION	
9	WMA	6/14/98	REVISION	
10	WMA	6/14/98	REVISION	

CEGAR HILLS LANDFILL
GAS PROCESSING

MERICHEM CHEMICALS & REFINERY SERVICES LLC
GAS TECHNOLOGY PRODUCTS
SCHAMBERG, ILLINOIS

DATE: 6/14/98	SCALE: SEE DRAWING	REV: 1
DATE: 6/14/98	SCALE: SEE DRAWING	REV: 2
DATE: 6/14/98	SCALE: SEE DRAWING	REV: 3
DATE: 6/14/98	SCALE: SEE DRAWING	REV: 4
DATE: 6/14/98	SCALE: SEE DRAWING	REV: 5
DATE: 6/14/98	SCALE: SEE DRAWING	REV: 6
DATE: 6/14/98	SCALE: SEE DRAWING	REV: 7
DATE: 6/14/98	SCALE: SEE DRAWING	REV: 8
DATE: 6/14/98	SCALE: SEE DRAWING	REV: 9
DATE: 6/14/98	SCALE: SEE DRAWING	REV: 10

THIS DRAWING IS CONTROLLED DOCUMENT. NO REVISIONS TO BE MADE WITHOUT APPROVAL OF THE DESIGNER.

Attachment 3 Legal Description

Property Location: 16645 228th Avenue SE, Maple Valley, WA 98038 (at the intersection of 228th Ave SE and Cedar Grove Road).

Legal Description: The North $\frac{1}{2}$ of the Section 28, Township 23, Range 6 and Section 21, Township 23, Range 6, except the Northeast $\frac{1}{4}$ thereof. Above described to contain a 1000 ft buffer strip along the adjoining property.

Parcel Number: 2123069016